## **Emission Summary**

Company Name: Proton Power, Inc.

Source Status: New Modification Expansion Relocation Permit Status: New Renewal

PSD NSPS NESHAP Previous Permit Number: Construction N/A Operating N/A

|                 | Pounds/Hour |           |           | Tons/Year |           |           |               |  |
|-----------------|-------------|-----------|-----------|-----------|-----------|-----------|---------------|--|
|                 | Actual      | Potential | Allowable | Actual    | Potential | Allowable | Net<br>Change | <u>Limit</u><br>Applicable Standard          |
| PM              |             |           |           |           |           |           |               |  |
| SFP             | 0.13        | 0.32      | 0.32      | 0.59      | 1.40      | 1.40      |               | <u>TAPCR 1200-03-0704(2)</u><br>0.25 gr/dscf |
| СО              |             |           |           |           |           |           |               |  |
| SFP             | 0.74        | 0.74      | 0.74      | 3.25      | 3.25      | 3.25      |               | TAPCR 1200-03-0707(2)                        |
| NO <sub>x</sub> |             |           |           |           |           |           |               |  |
| SFP             | 0.31        | 0.31      | 0.31      | 1.37      | 1.37      | 1.37      |               | TAPCR 1200-03-0707(2)                        |
| VOC             |             |           |           |           |           |           |               |  |
| SFP             | 0.30        | 0.30      | 0.30      | 1.32      | 1.32      | 1.32      |               | TAPCR 1200-03-0707(2)                        |
| HAPs            |             |           |           |           |           |           |               |  |
| PWH             | 0.35        | 0.35      | 0.35      | 1.53      | 1.53      | 1.53      |               | TAPCR 1200-03-0707(2)                        |
| 0               |             | •         |           |           |           |           | •             | 20%  |
| Opacity         |             |           |           |           |           |           |               | TAPCR 1200-03-0501(1)                        |
|                 |             |           |           |           |           |           |               | TAPCR 1200-03-0503(6)                        |

SFP: Synthetic Fuel Production (ID 02)

PWH: Process Water Handling/Wood Vinegar Production (ID 04)

## EAST PERMITTING PROGRAM

Date of Data: August 29, 2016

**EPS Initials: TFR** 

## **CONSTRUCTION PERMIT SUMMARY REPORT**

| <u>Company Name</u> : <u>Proton Power, Inc.</u>   | <b>File Number:</b> 73-1117-02,04   | EPS: TFR   |
|---|---|--|
| Application Received: July 11, 2016   | <b>Application Complete:</b>  | August 12, 2016  |
| <u>Air Quality Analysis Performed?</u> Yes  No⊠   |   |  |
| Project Description: Proton Power, Inc. seeks to obtain an air contaminant permit for cons facility in Lenoir City. The proposed operation will consist of the for flare), Source 03: Biomass Drying (electric dryer, clean burn dryer (oil/water separator). A flare will be used to control emissions from air contaminants emitted by the source(s). | ollowing: Source 02: Synthetic Fuel<br>r), and Source 04: Process Water H | Production (distillation drums and andling/Wood Vinegar Production       |
| Rules Analysis Title V ☐ Cond. Major ☐ Minor ☒ Source category listed in  | 1200-03-0901(4)(b)1.(i)? Yes  | No⊠  |
| Reason for PSD:New source above TPYN/AApplicable NSPS:40 CFR Part 60, SubpartN/AApplicable NESHAP:40 CFR Part 61, SubpartN/AApplicable NESHAP:40 CFR Part 63, SubpartN/A  | State Rule 1200-03-16-  State Rule 1200-03-11-                            | N/A  |
| Other Applicable State Rules         2PM Emissions:       1200-03-       07 04(2)       ✓ N/A ☐         4HAP Emissions:       1200-03-       07 07(2)       ✓ N/A ☐         2CO Emissions:       1200-03-       07 07(2)       ✓ N/A ☐         2VOC Emissions:       1200-03-       07 07(2)       ✓ N/A ☐  | Lead Emissions: 1200-03-  | 07 07(2) ⊠ N/A ☐ ☐ N/A ☐ ☐ N/A ☐ ☐ N/A ☐ ☐ N/A ☐                         |
| Visible Emissions from <u>each exhaust stack</u> not to exceed  |   | 9 1200-03- <u>05-</u> <u>.03(6)</u><br>1200-03- <u>05-</u> <u>.01(1)</u> |

<u>Insignificant/Exempt Sources</u>
The drying operation (Source 03) listed in the application is deemed insignificant per TAPCR 1200-03-09-.04(2)(a)(3).

<sup>&</sup>lt;sup>2</sup>Synthetic Fuel Production <sup>4</sup>Process Water/Wood Vinegar Production